

ABSTRACT OF THE DISCLOSURE

A method and apparatus for welding is disclosed:
The method includes sensing the status of a trigger between
an on position and an off position. A system latch is set
or released based on the trigger status and the latch
5 status. The system latches on when the trigger is held for
a predetermined time (and the latch was previously off).
The latch is released when the trigger is pulled and
released when the latch was previously on. When the latch
is off, pulling the trigger turns the system on, and
10 releasing the trigger before the predetermined time turns
the system off. The latch may also be released when welding
current drops below a threshold. The time might not start
until after welding current is flowing. A welding wire feed
speed control potentiometer on a torch is also disclosed.
15 The range of the torch potentiometer is from a minimum to a
value dependent on the control panel welding wire feed
speed. A run-in wire feed speed control is also disclosed.
The range of the run-in wire feed speed is from a minimum to
a value dependent on the control panel or torch welding wire
20 feed speed.